

REMARKS

Claims 1-23 are pending in the present application. Claims 1, 18 and 22 were amended. Basis for the amendments may be found throughout the application as originally filed. The Examiner is respectfully requested to reconsider and withdraw the rejection(s) in view of remarks contained herein.

REJECTION UNDER 35 U.S.C. § 101

Claims 1-23 stand rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter. This rejection is respectfully traversed.

Applicant's invention is directed generally to an adaptive signal classifier which learns to identify specific embedded spatiotemporal signals in an arriving signal data stream of an evolving signal environment. The signal classifier is implemented using fuzzy automata. Of interest, Applicant's claim sets forth an innovative method for deriving near-optimal fuzzy automata for a given signal separation problem, where each fuzzy automata is correlated to at least one input signal found in the signal environment and is operable to output an indicator of its correlated input signal. In the context of a signal classifier, it is readily understood that such an output may be used to filter or otherwise separate known signals from an arriving flux of input signals. Thus, Applicant asserts that an indication of an input signal found in the signal environment is a useful, concrete and tangible result, thereby placing Applicant's claimed invention in the realm of patentable subject matter. Accordingly, reconsideration and withdrawal of this rejection is respectfully requested.

REJECTION UNDER 35 U.S.C. § 112

Claims 1-23 stand rejected under 35 U.S.C. §112, first paragraph. This rejection is respectfully traversed.

In response to this rejection, Applicant directs the Examiner to arguments set forth above. Since the pending claims as amended recite patentable subject matter, Applicant respectfully requests the Examiner to reconsider and withdraw this rejection.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office

Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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